Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1.	(Currently Amended) A semiconductor device, comprising:
	—a diode, including:
	a p-type silicon layer, the p-type silicon layer including
implantedcontaining germanium;, and	
	a n-type silicon layer junctioned to the p-type silicon layer and the n-
type silicon	layer being disposed on an insulating substrate.

2. (Original) A semiconductor device, comprising:

a diode, including:

a p-type silicon layer, the p-type silicon layer containing germanium; an intrinsic silicon layer junctioned to the p-type silicon

layer; and

a n-type silicon layer junctioned to the intrinsic silicon layer.

- 3. (Canceled)
- 4. (Original) The semiconductor device according to claim 1, having a plurality of diodes, and further comprising:

a bridge-rectifier circuit comprising the diodes, and rectifying a predetermined alternating-current voltage to a direct-current voltage.

5. (Original) The semiconductor device according to claim 4, comprising:

a coil antenna coupled to one side of the bridge-rectifier circuit; and
a smoothing capacitor coupled to the other side of the bridge-rectifier circuit,
the coil antenna generating an alternating-current voltage by electromagnetic induction;

the bridge-rectifier circuit rectifying the alternating-current voltage supplied thereto into a direct-current voltage; and

the smoothing capacitor smoothing the direct-current voltage supplied thereto into a constant voltage.

6. (Original) A method of manufacturing a semiconductor device with a diode having a p-type silicon layer and a n-type silicon layer junctioned to the p-type silicon layer, comprising:

forming silicon-germanium mixed crystal by implanting germanium to the p-type silicon layer.

- 7. (Original) The semiconductor device according to claim 2, the diode being disposed on one of an insulating substrate and an insulation layer.
- 8. (Original) The semiconductor device according to claim 2, having a plurality of diodes, and further comprising:

a bridge-rectifier circuit comprising the diodes, and rectifying a predetermined alternating-current voltage to a direct-current voltage.

- 9. (New) A semiconductor device according to claim 1, the p-type silicon layer and the n-type silicon layer contacting the insulating substrate.
- 10. (New) A semiconductor device according to claim 2, the p-type silicon layer, the n-type silicon layer and the intrinsic silicon layer being disposed on an insulating substrate.
- 11. (New) A semiconductor device according to claim 10, the p-type silicon layer, the n-type silicon layer and intrinsic silicon layer contacting the insulating substrate.